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7 July 1958

MEMORANDUM FOR: Acting Chief, Trade Controls Branch, D/S/RR

THROUGH:

Chief, Services Division, ORR

THROUGH:

Chief, Materials Division, ORR

FROM:

Chief, Ferrous Metals Branch, D/M/RR

SUBJECT:

Project No. 48.1872, Sino-Soviet Bloc Position, 1957

1. Attached is an appraisal of the nickel position of the Sino-Soviet Bloc in 1957. The statement is submitted in response to your memorandum dated 28 May requesting intelligence on nickel for the use of the EDAC Diversion Control Panel. This paper has been coordinated with State/IRA.

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Sino-Soviet Bloc Nickel Position, 1957

The apparent supply of nickel in the Sino-Soviet Bloc in 1957 was sufficient to meet the indicated requirements for direct military applications and to provide for a relatively low level of consumption for non-military uses. Total Bloc supplies are estimated at 59,600 short tons, including production of approximately 59,500 short tons and net imports from the Free World of about 100 tons.

Except for a small amount--probably less than 200 short tons--produced in East Germany, all of the Bloc's production of nickel came from the USSR. Other Bloc countries are almost entirely dependent on the USSR for their supplies of nickel. Soviet shipments to the European Satellites approximated 5,700 short tons in 1957, most of which was exported to East Germany, Czechoslovakia, and Poland. Soviet exports to Communist China may have amounted to almost 1,200 short tons. Exports from the USSR to non-Bloc countries (Finland and Yugoslavia) are tentatively estimated at 200 to 300 short tons.

The dependence of the Bloc on Soviet production is expected to continue, although current plans provide for the development of additional supplies in East Germany and Czechoslovakia. Production in East Germany is scheduled to increase to about 1,100 short tons by 1960, but it is doubtful that this goal will be achieved. Czechoslovakia has begun to extract nickel from Albanian iron-nickel ore and by 1960, production may amount to 900 to 1,800 short tons if present plans are fulfilled. Until 1955 Poland was a small producer of nickel but it is believed that the nickel deposits in that country have been exhausted.

As the use of nickel is closely associated with that of steel, the following table compares the availability of nickel per ton of steel produced in the U.S., the Free World, and in sectors of the Sino-Soviet Bloc in 1957. The data indicate that although the availability of nickel per ton of steel production in the Sino-Soviet Bloc as a whole was 75% of that of the Free World, the share of the European Satellites and Communist China was only 30% and 20% respectively of the Free World figure. Availability in the USSR, however, was 85% of that in the U.S., and nearly equivalent to the Free World average.

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Table

Area	Nickel Availability (short tons)	Pounds of Nickel Available per ton of Crude Steel Produced
Total Free World	244,000 1/	2.0
U.S.	125,000 2/	2.2
Total Sino-Soviet		
Ploc principality	<u>59,600</u> *	<u>1.5</u>
USSR	52,400 3/	1.9
European		
Satellites	5,700	0.6
Communist Chi	na 1,200	0.4

^{*} Includes net imports of 100 tons from the Free World. If all clandestine shipments are assumed to have gone to the Satellites, the apparent supply in those countries would have approximated 6,000 tons or 0.7 pounds per ton of steel produced.

- 1. Estimated production. STEEL, 23 Dec 1957, p. 36, U
- 2. Estimated consumption. STEEL, 23 Dec 1957, p. 36, U
- 3. Production less exports.

To attain the Free World (not the U.S.) level of nickel availability in 1957 it would have been necessary for the Bloc to have increased its production by about 21,000 tons or 35%.

Although the nickel supply of the USSR is adequate to provide for military requirements in present peace-time conditions, these priority demands are estimated to consume approximately 35 percent of the apparent supply. Nickel available for non-military applications in the USSR in 1957 is estimated at 1.5 pounds per short ton of steel mill products used for those purposes--55 percent of the 2.7 pounds consumed in the U.S. This comparison could become even less favorable to the USSR if, because

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S-E-C-R-E-T

of the continued denial of Free World nickel to the Bloc, the USSR is forced to divert increasing amounts of Soviet production to the European Satellites and China in order to provide more adequately for the growing requirements of these countries.

Consumption of nickel in the USSR for other than high priority applications is further inhibited by the high cost of the metal resulting from the location and grade of indigenous nickel bearing ores. The investment of \$25,000 per ton of new capacity envisaged by the directives of the Sixth Five Year Plan is more than five times that required for the International Nickel Company's new Thompson mine in Northern Manitcha. The internal price of nickel of R. 24,000 per ton is almost three times the U.S. price in relation to ruble/dollar prices of ordinary steel miliproducts.

The expansion of the Soviet nickel industry scheduled for the early years of the Sixth Five Year Plan has not been attained. The Plan called for an increase of 64 percent in production and for investment in the nickel-cobalt industry equivalent to more than \$100 million per year during 1956-1960. In 1956 and 1957, however, the estimated increases in production were only 50 to 60 percent of the average annual increases required to meet the 1960 goal.

The goal for increasing the nickel supply during the Seven Year Plan (1959-1965) has not been announced. Discussions of plans for expanding individual facilities, however, notably Norilsk, Fechenga, Monchegorsk and Orsk, indicate that the program is at least as large as that provided in the original Sixth Five Year Plan. Although this will result in a supply nearly double that of 1957 its adequacy for the expanding needs of the economy during the extended period of the program will depend largely on the rate of increase in military requirements. Real costs will almost certainly be substantially higher than those of commercial Free World producers.